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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/046,626	01/14/2002	Anna Pelagotti	NL010022	4805	
24737	7590 11/17/2004		EXAM	INER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			WONG, A	WONG, ALLEN C	
P.O. BOX 3001 BRIARCLIFF MANOR、NY 10510			ART UNIT	PAPER NUMBER	
	,		2613 .		

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



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	Application No.	Applicant(s)	99
	10/046,626	PELAGOTTI ET AL.	7 ,
Office Action Summary	Examiner	Art Unit	
	Allen Wong	2613	·
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet	with the correspondence addre)SS
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may ly within the statutory minimum of t will apply and will expire SIX (6) Me, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this comm ABANDONED (35 U.S.C. § 133).	nunication.
Status		•	
1) Responsive to communication(s) filed on			1.1
	s action is non-final.	•	
3) Since this application is in condition for alloward closed in accordance with the practice under a	•	· · · · · · · · · · · · · · · · · · ·	erits is
Disposition of Claims			
4) ☐ Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,4,6 and 7 is/are rejected. 7) ☐ Claim(s) 2,3 and 5 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o			
9) The specification is objected to by the Examine	er.	•	
10) The drawing(s) filed on is/are: a) acc		o by the Examiner.	
Applicant may not request that any objection to the	,	•	
Replacement drawing sheet(s) including the correct	tion is required if the drawing	ng(s) is objected to. See 37 CFR	1.121(d).
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attach	ed Office Action or form PTO-	152.
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in ority documents have bee u (PCT Rule 17.2(a)).	Application Noen received in this National Sta	age
Attachmont/c\			
Attachment(s) Notice of References Cited (PTO-892)	4) \prod Interview	v Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1/14/02,6/11/02.	Paper N	o(s)/Mail Date f Informal Patent Application (PTO-15	52)
Detect and Text			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 4, 6 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Nakajima (5,412,435).

Regarding claims 1 and 6, Nakajima discloses a device and method of motion-compensated interpolation of a data-signal, which data-signal comprises successive images wherein each image comprises groups of pixels, the method comprising:

generating motion vectors, each motion vector corresponding to a group of pixels of one image, between a group of pixels of said one image and a second group of pixels of another image in the data-signal (fig.20, note the motion vectors V1...Vn are the generated motion vectors);

generating interpolated results as a function of these motion vectors (fig.20, note motion vectors V1...Vn are then inputted to element 43 outputs the best interpolated results, along with the results from element 41 and 42 that incorporates the weights E1 ... En into element 43);

estimating the reliability of each motion vector corresponding to a particular group of pixels (fig.20, note 31 ... 3n are the estimators for estimating reliability of the particular group of pixels);

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calculating weights as a function of the reliability of the motion vectors (fig.20, note the E1...En are the weights that represent the reliability of the motion vectors); and

generating an interpolated luminous intensity of a group of pixels for an interpolated image by calculating, on the basis of these weights, a weighted average of the interpolated results (fig.20, element 41 and 42 obtains the weights E1 ... En from elements 31 ... 3n and process these weights E1 ... En to generate an interpolated results that would apply to element 43 for selection and output of the best interpolated results for the generation of interpolated luminous intensity of a group of pixels for an interpolated image).

Regarding claim 4, Nakajima discloses wherein the generation of interpolated luminous intensities according to the invention is only performed in those parts of the images of the data-signal where edges in the motion vector field of the images are located (fig.20, element 41 and 42 obtains the weights E1 ... En from elements 31 ... 3n and process these weights E1 ... En to generate an interpolated results that would apply to element 43 for selection and output of the best interpolated results for the generation of interpolated luminous intensity of a group of pixels for an interpolated image).

Regarding claim 7, Nakajima discloses a picture signal display apparatus, comprising:

means for receiving a data-signal, which data-signal comprises successive images wherein each image comprises groups of pixels (fig.20, note input data 10 and

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reference data 11 are the received data signals of the successive images, wherein image data comprises groups of pixels);

a device for motion-compensated interpolation of said data-signal, as claimed in claim 6 (fig.1, element 79);

means for generating at least one interpolated image on the basis of said interpolated luminous intensities (fig.20, element 41 and 42 obtains the weights E1 ... En from elements 31 ... 3n and process these weights E1 ... En to generate an interpolated results that would apply to element 43 for selection and output of the best interpolated results for the generation of interpolated luminous intensity of a group of pixels for an interpolated image); and

means for displaying the at least one interpolated image (fig.20, note output of element 43 goes to a display for displaying at least one interpolated image).

Allowable Subject Matter

- 3. Claims 2, 3 and 5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. The following is a statement of reasons for the indication of allowable subject matter: The prior art does not disclose the specific limitations of claim 2 because of the level of details. Also, the prior art does not disclose the specifics of claim 5.

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Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen Wong whose telephone number is (703) 306-5978. The examiner can normally be reached on Mondays to Thursdays from 8am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Kelley can be reached on (703) 305-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Allen Wong Examiner Art Unit 2613

AW 11/10/04